Name: Aditya K Iyer

Reg. No: 20BCI0084

Data Analytics Assignment-1

1. Installing Tableau Desktop and MySQL Workbench:

   MySQL Workbench:

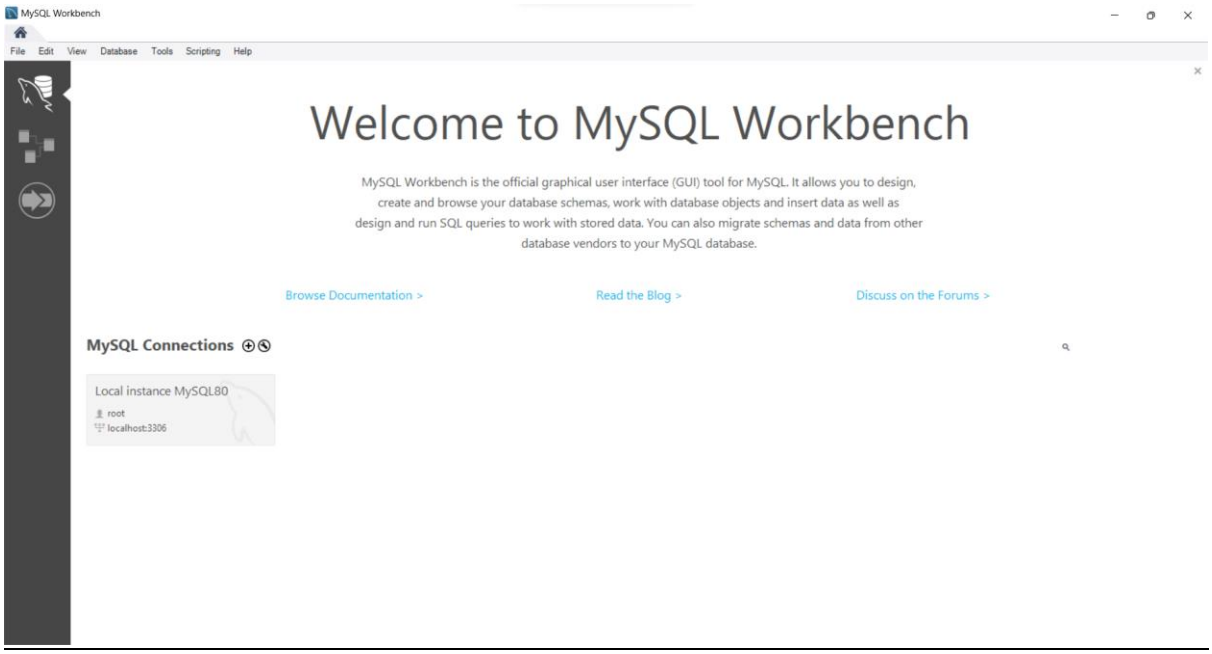
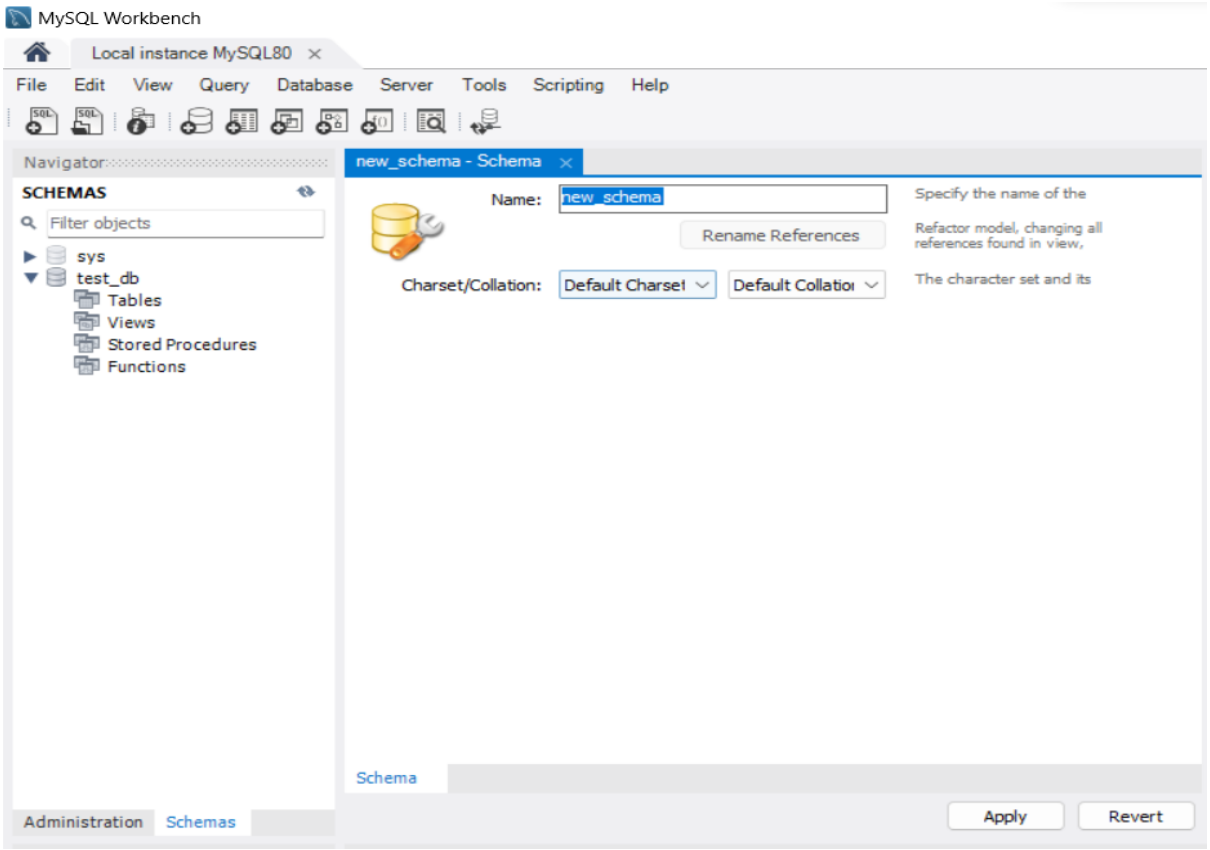
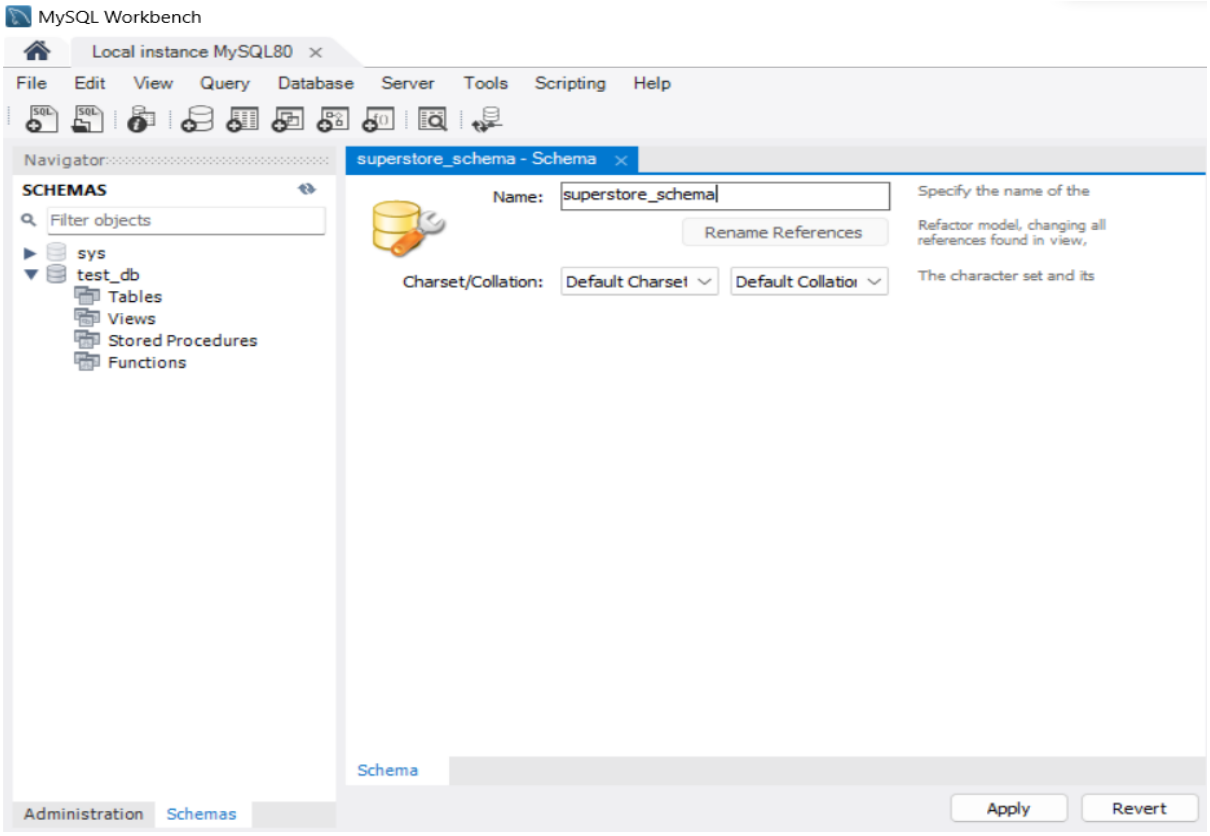


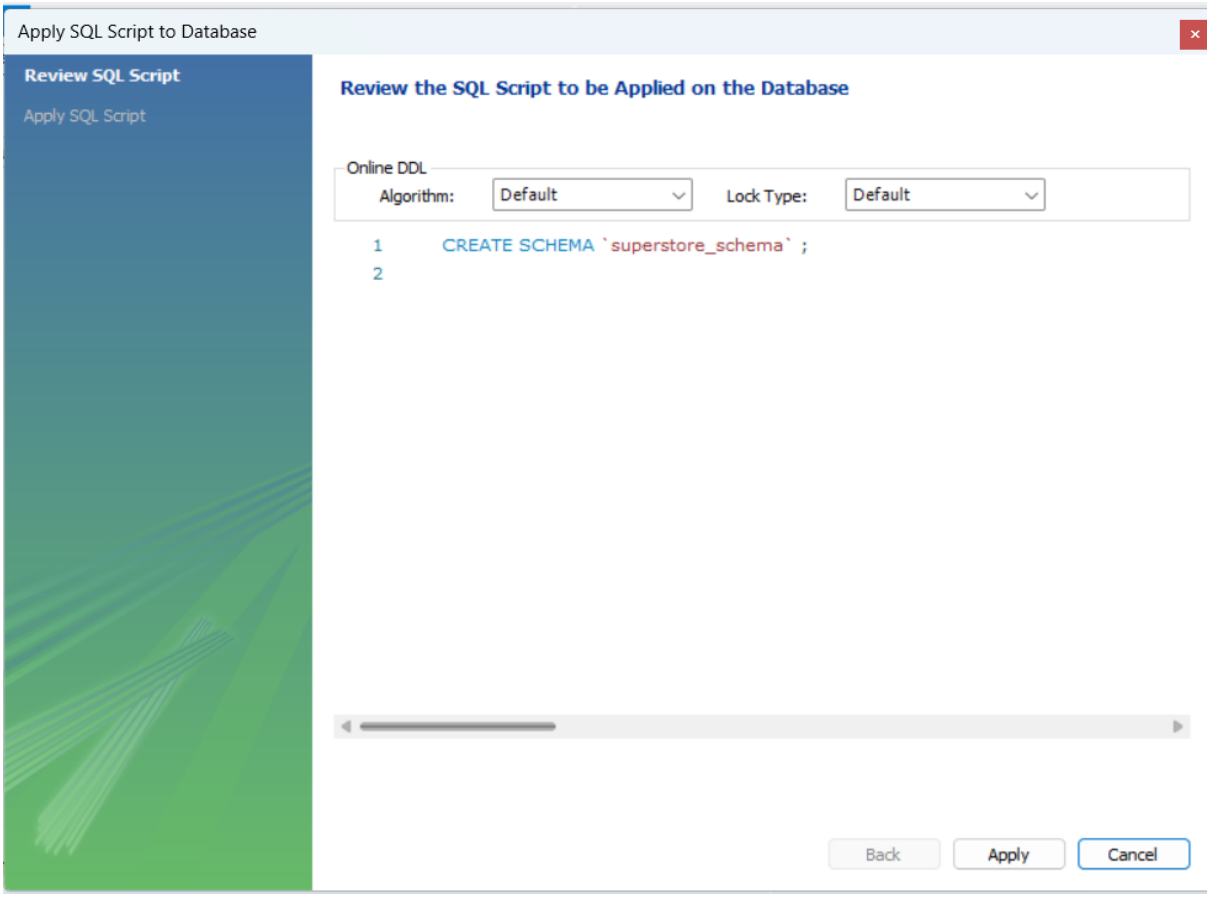
   Tableau Desktop:

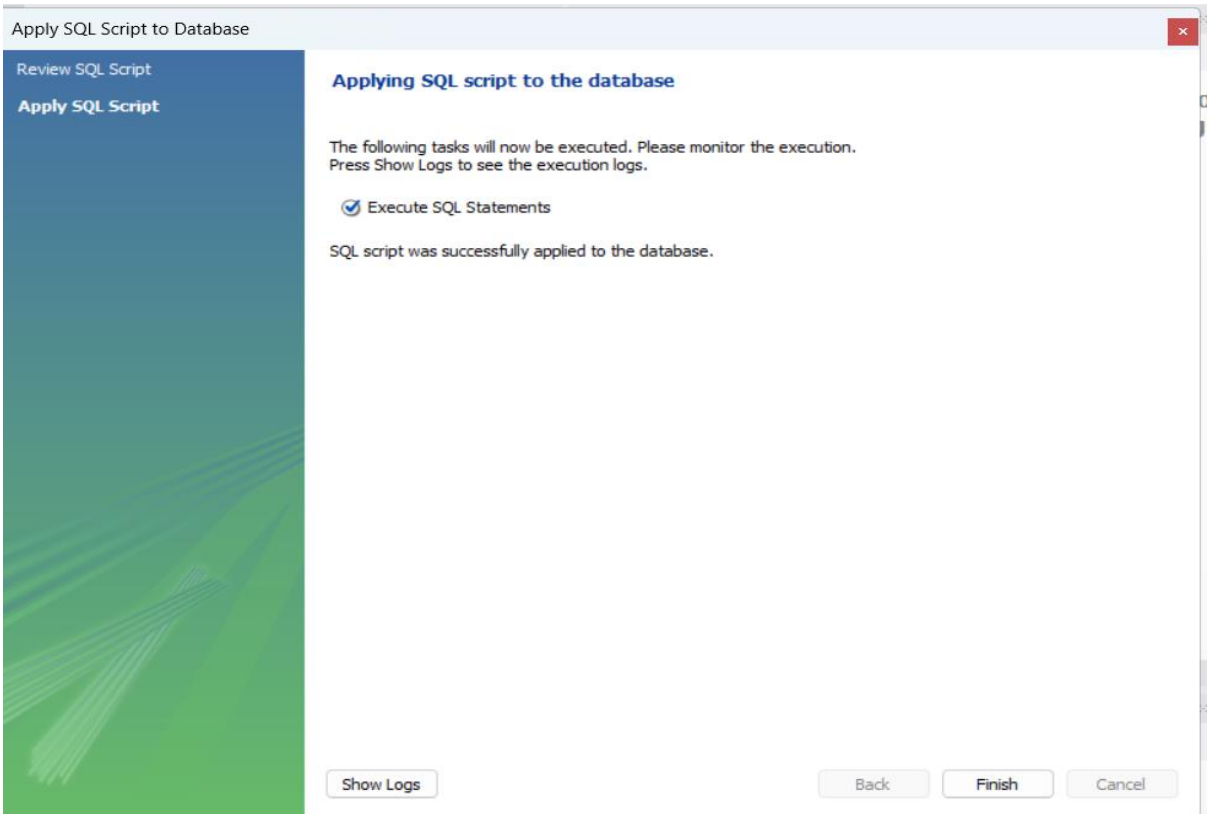
2. Creating a new schema in MySQL workbench and uploading the data:

New Schema Creation:

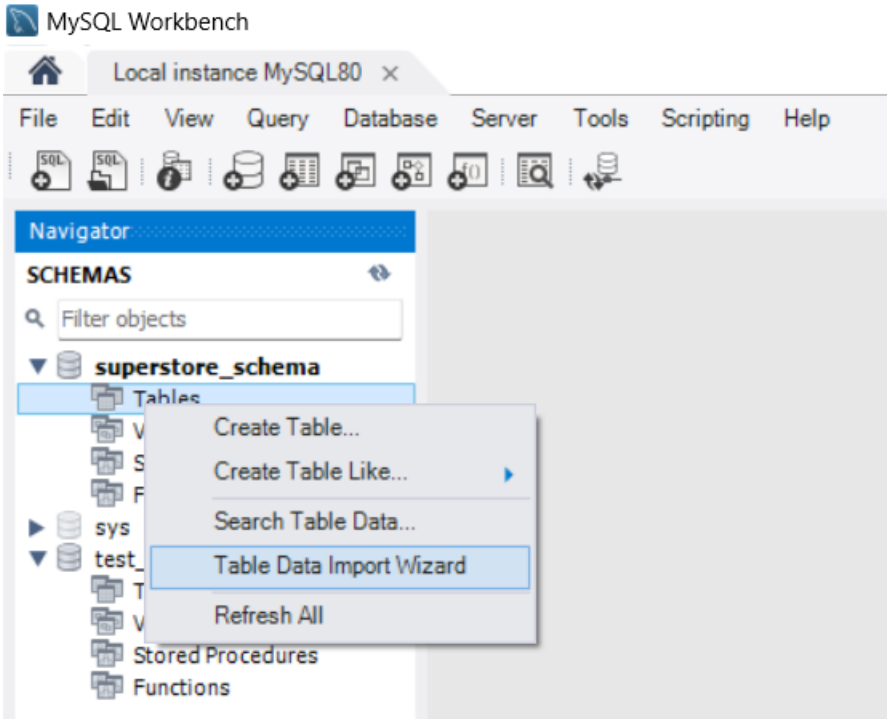


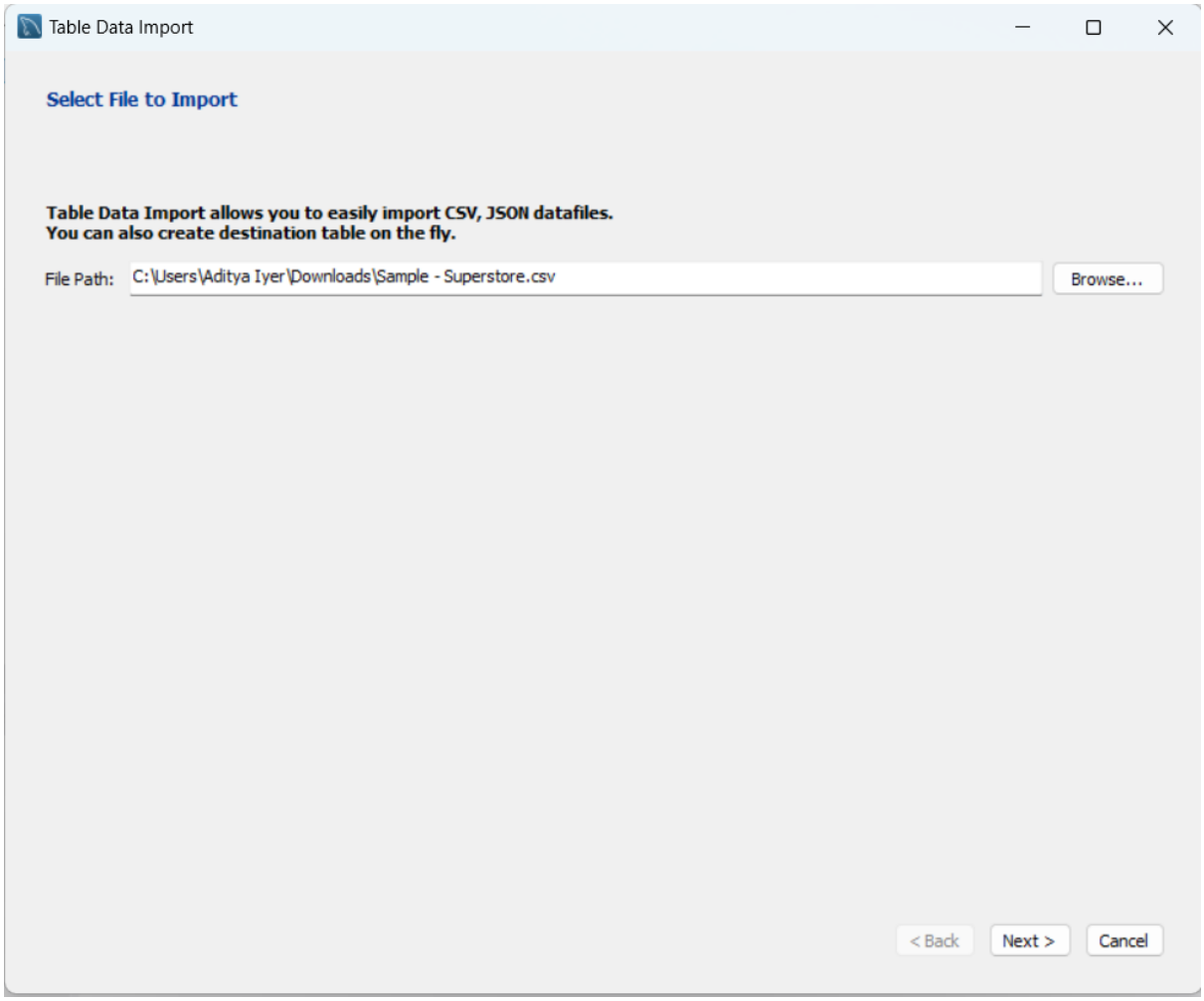



Apply SQL Script to Database
Review SQL Script
Apply SQL Script
Review the SQL Script to be Applied on the Database
Online DDL
Algorithm:
Default
Lock Type:
Default
1 CREATE SCHEMA `superstore_schema` ;
2
Back
Apply
Cancel


Apply SQL Script to Database
Review SQL Script
Apply SQL Script
Applying SQL script to the database
The following tasks will now be executed. Please monitor the execution.
Press Show Logs to see the execution logs.
Execute SQL Statements
SQL script was successfully applied to the database.
Show Logs
Back
Finish
Cancel

Importing Dataset:





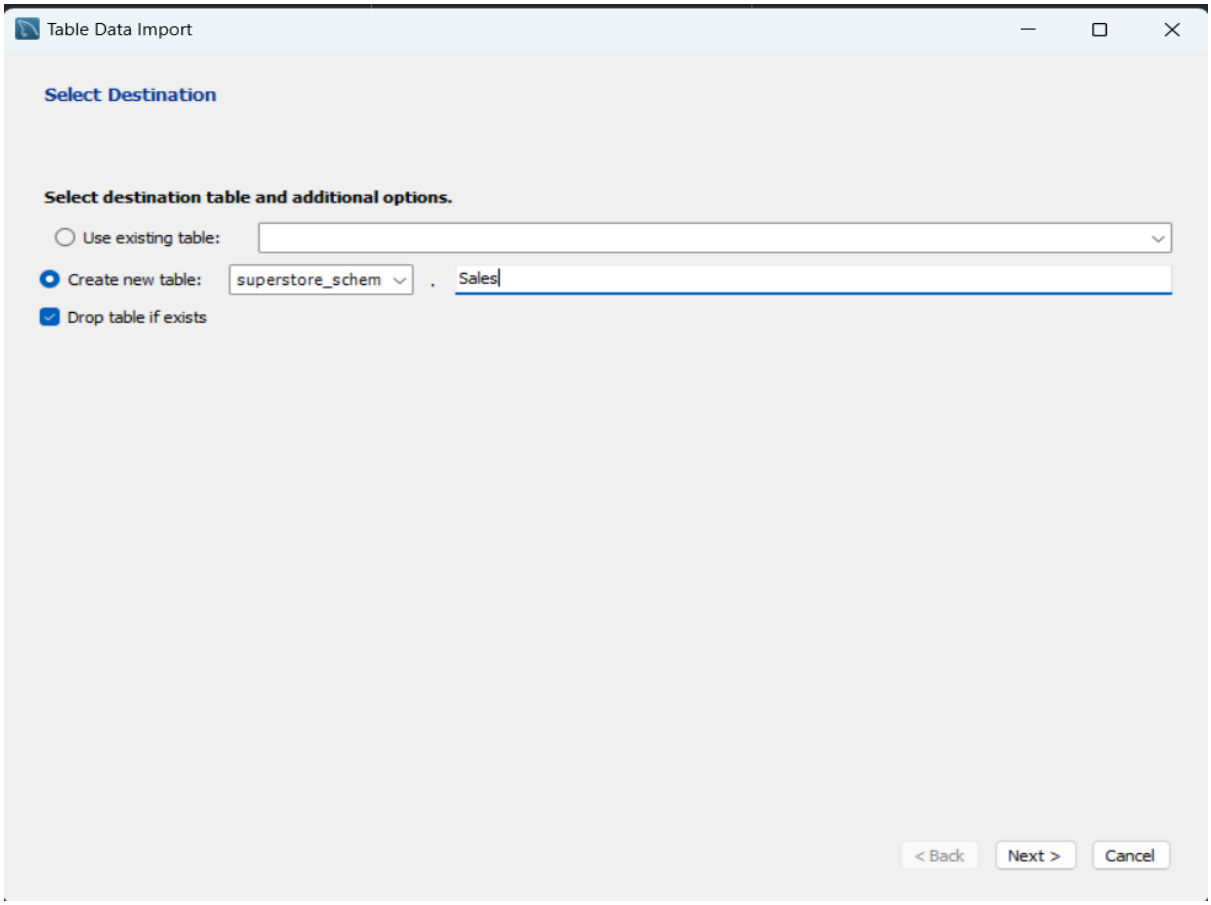


Table Data Import
Select Destination
Select destination table and additional options.
Use existing table:
Create new table:
superstore_schem
.
Sales
Drop table if exists
< Back
Next >
Cancel

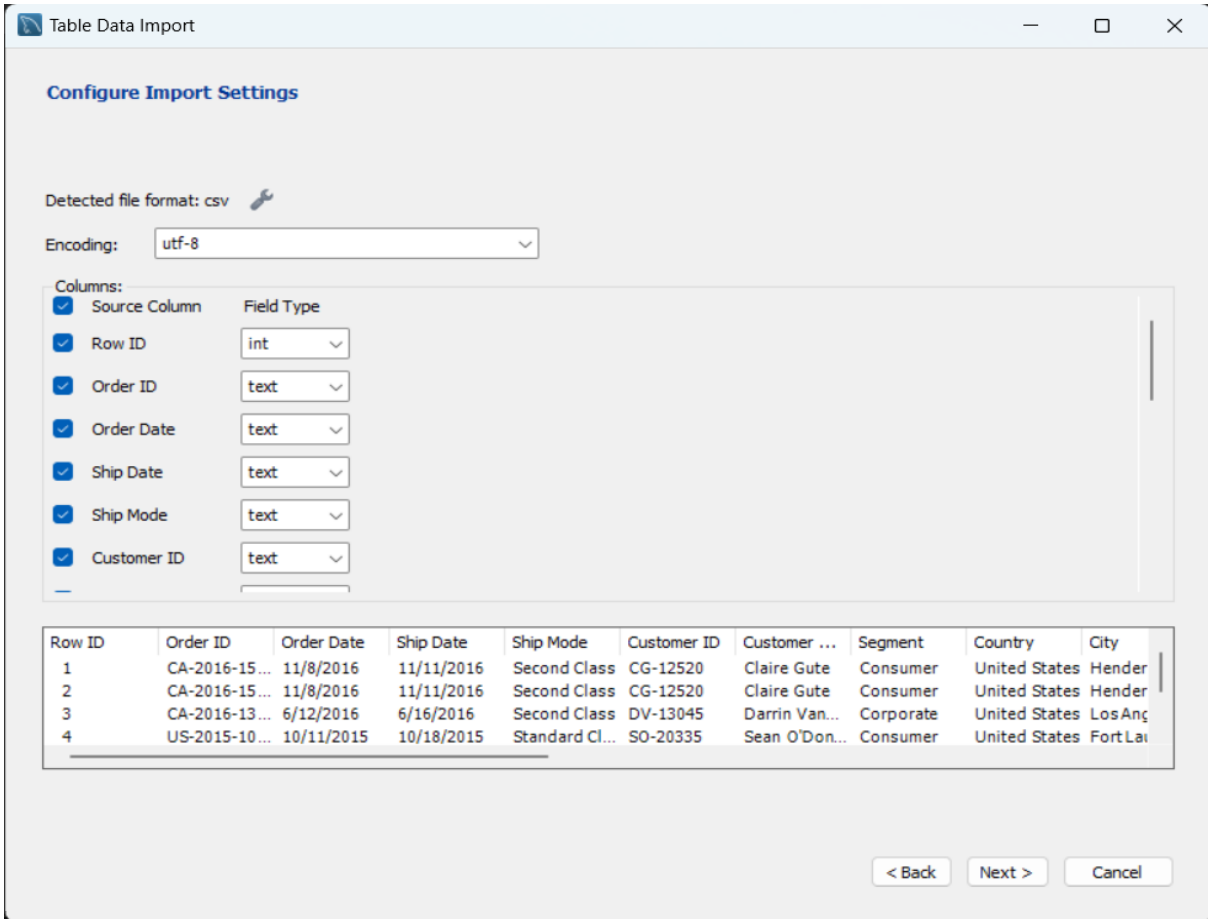


Table Data Import
Configure Import Settings
Detected file format: csv
Encoding:
utf-8
Columns:
Source Column
Field Type
Row ID
int
Order ID
text
Order Date
text
Ship Date
text
Ship Mode
text
Customer ID
text
Row ID
Order ID
Order Date
Ship Date
Ship Mode
Customer ID
Customer ...
Segment
Country
City
1
CA-2016-15...
11/8/2016
11/11/2016
Second Class
CG-12520
Claire Gute
Consumer
United States
Hender
2
CA-2016-15...
11/8/2016
11/11/2016
Second Class
CG-12520
Claire Gute
Consumer
United States
Hender
3
CA-2016-13...
6/12/2016
6/16/2016
Second Class
DV-13045
Darrin Van...
Corporate
United States
Los Ang
4
US-2015-10...
10/11/2015
10/18/2015
Standard Cl...
SO-20335
Sean O'Don...
Consumer
United States
Fort La
< Back
Next >
Cancel

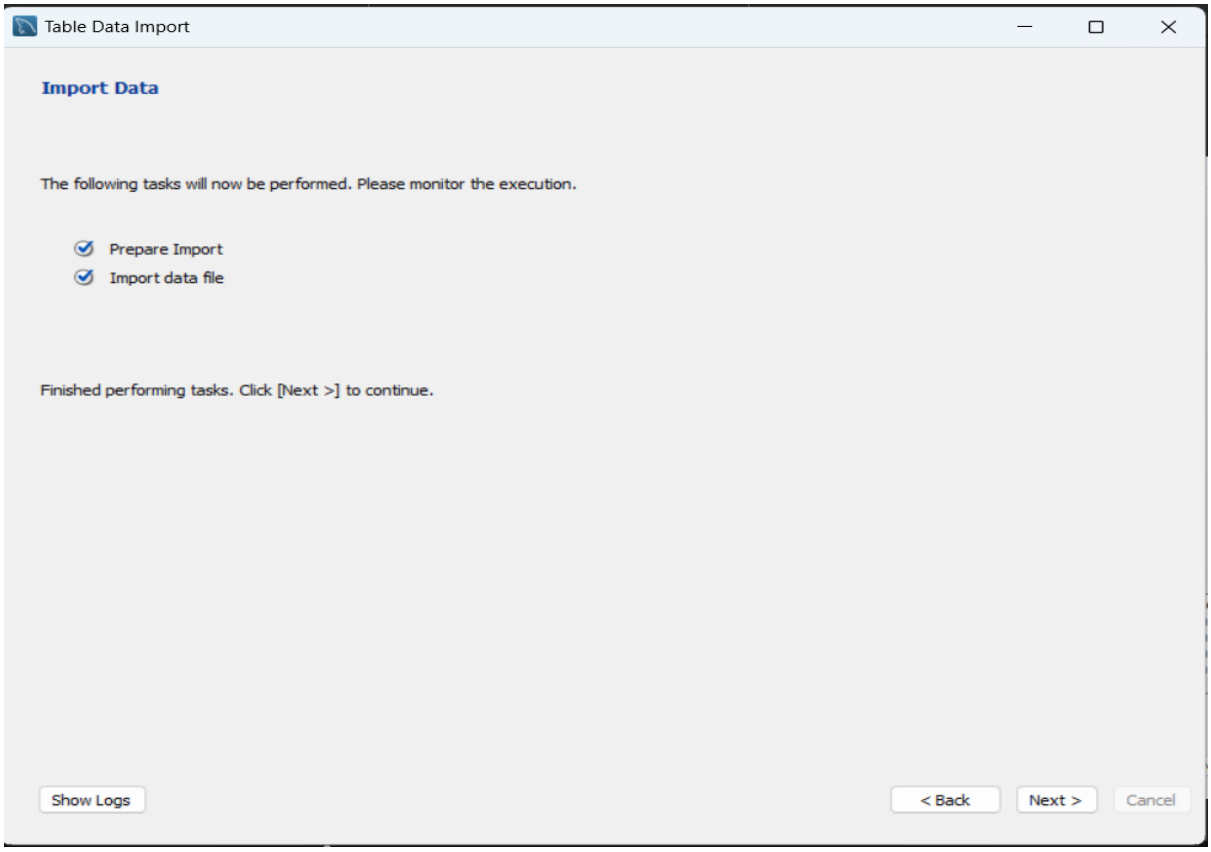


Table Data Import
Import Data
The following tasks will now be performed. Please monitor the execution.
Prepare Import
Import data file
Finished performing tasks. Click [Next >] to continue.
Show Logs
< Back
Next >
Cancel

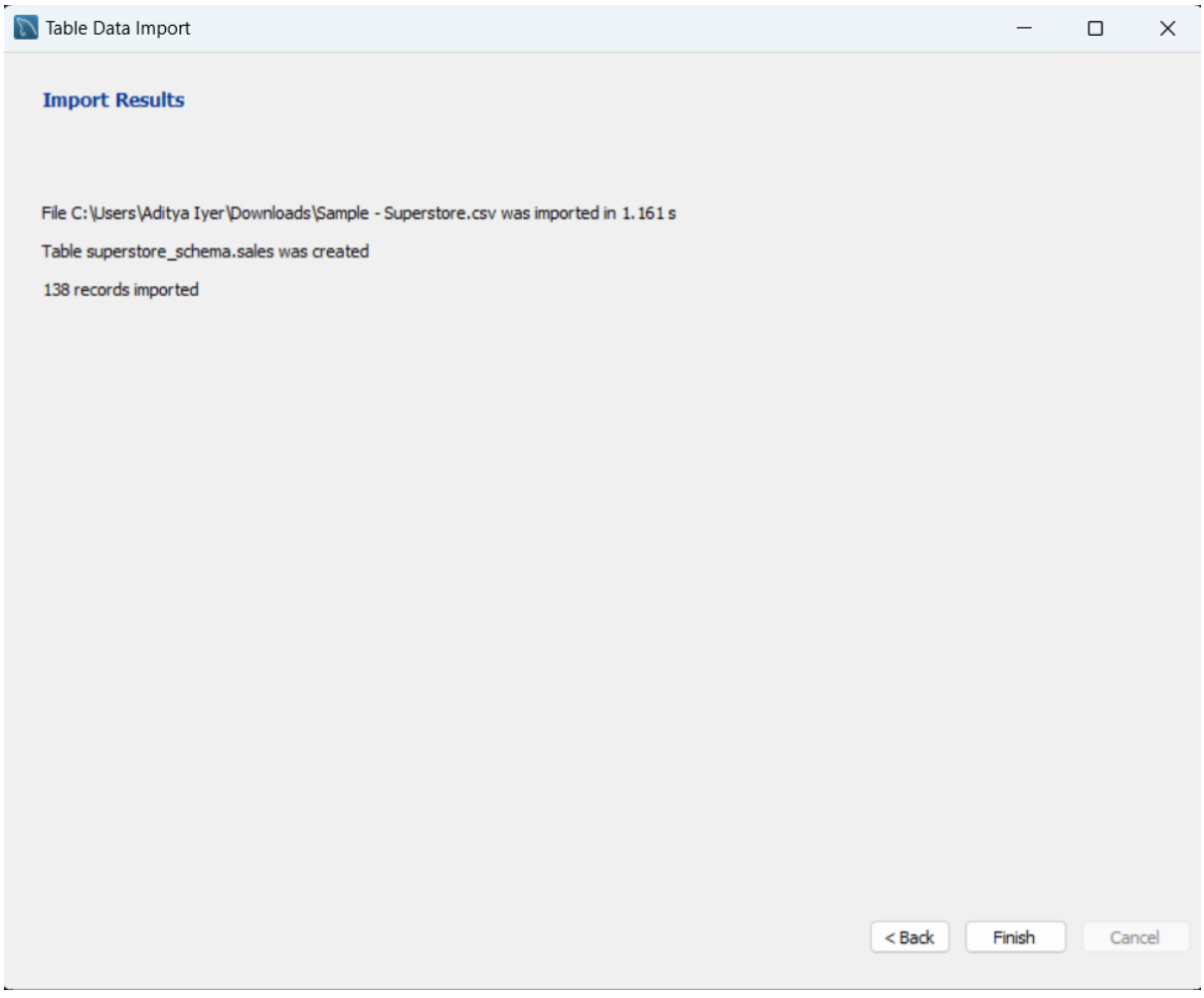
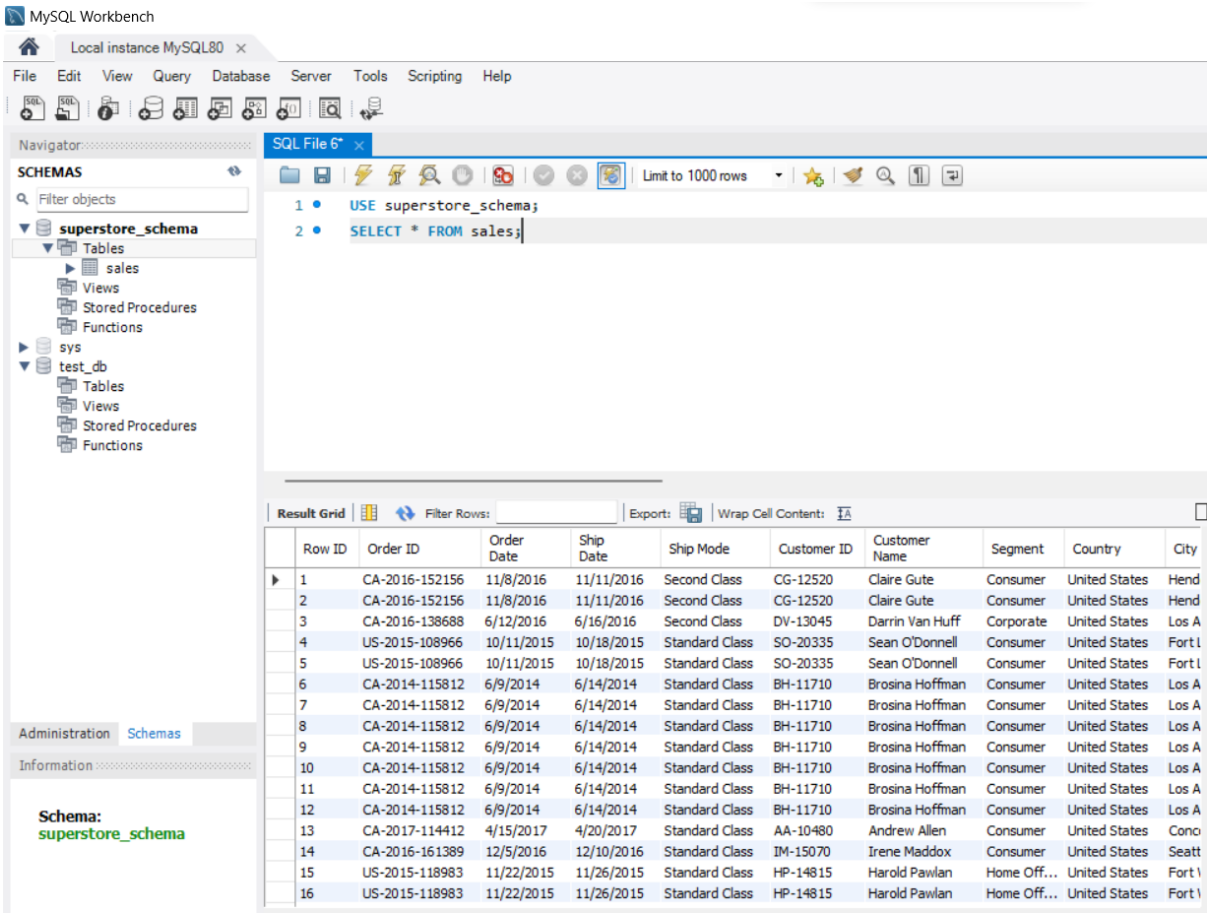
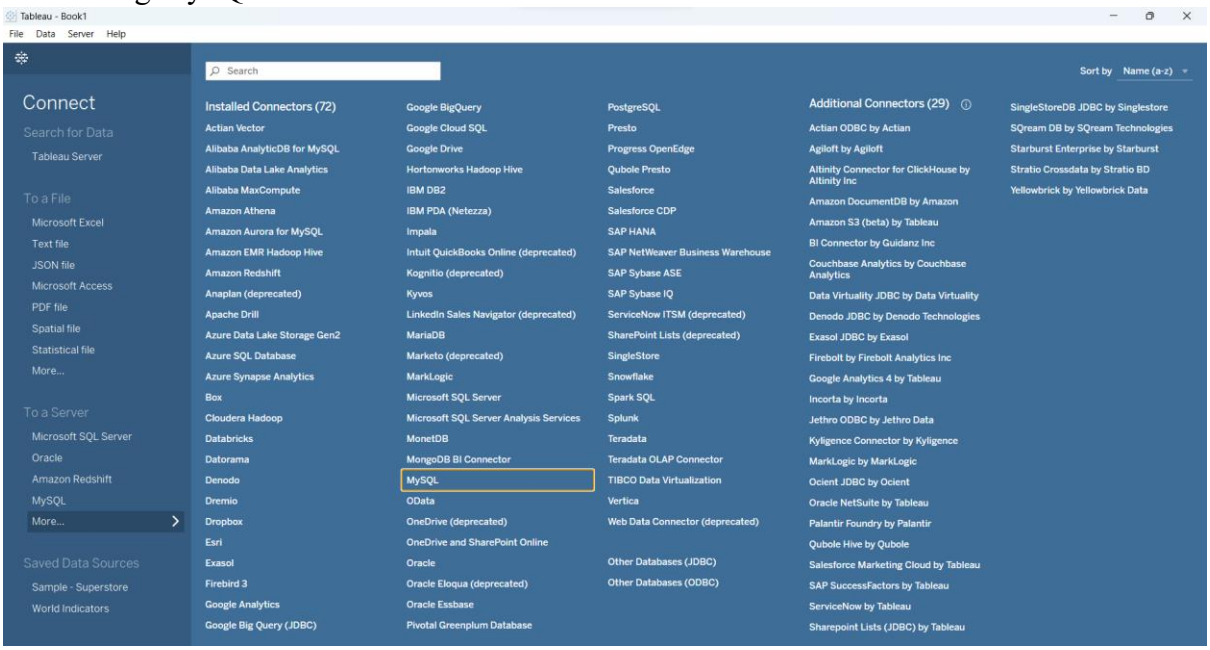
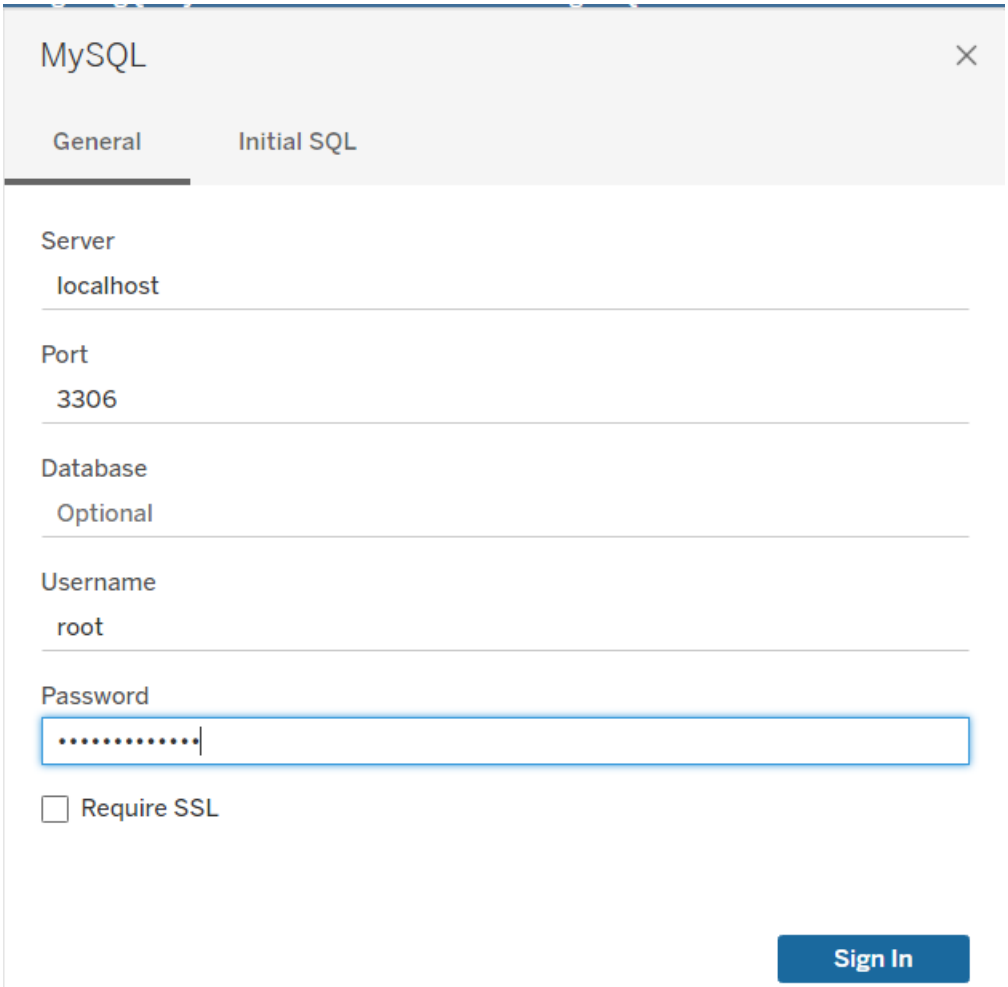


Table Data Import
Import Results
File C:\Users\Aditya Iyer\Downloads\Sample - Superstore.csv was imported in 1.161 s
Table superstore_schema.sales was created
138 records imported
< Back
Finish
Cancel



3. Connecting MySQL and Tableau:




MySQL
General
Initial SQL
Server
localhost
Port
3306
Database
Optional
Username
root
Password
Require SSL
Sign In

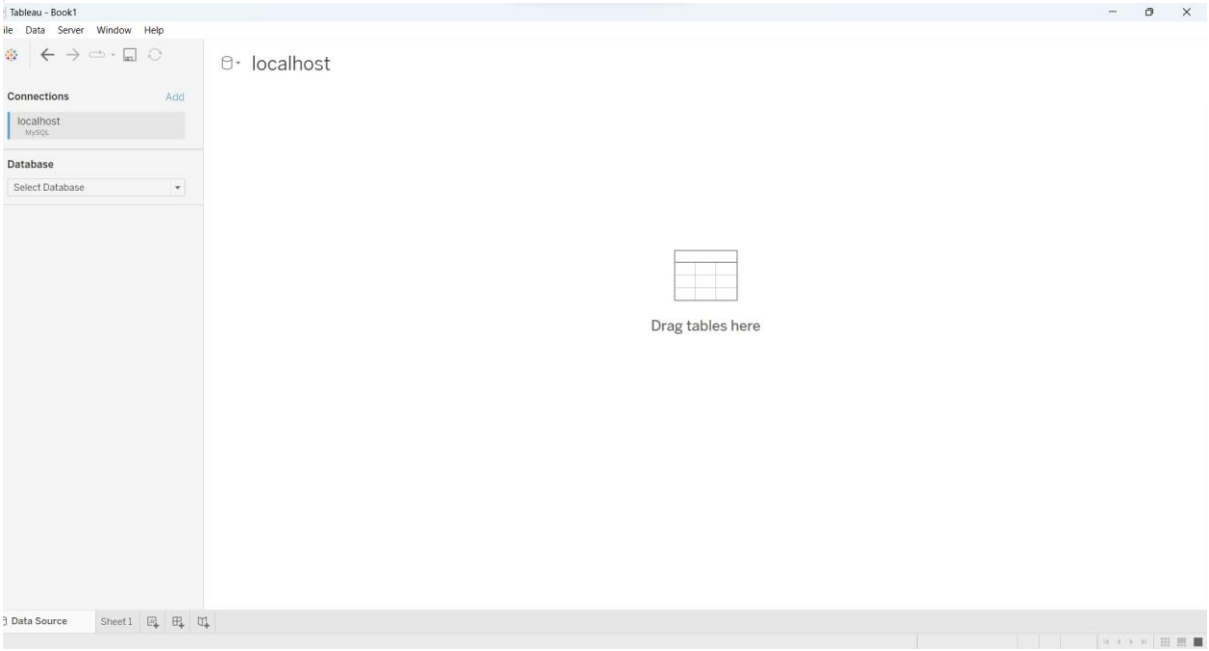
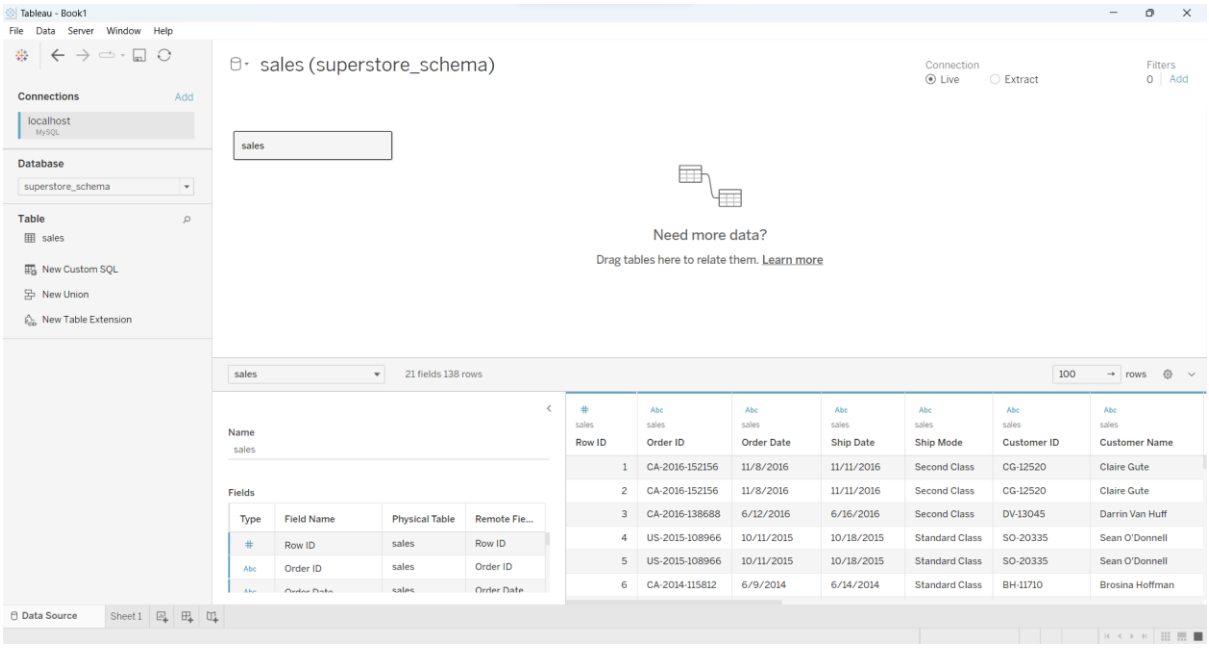
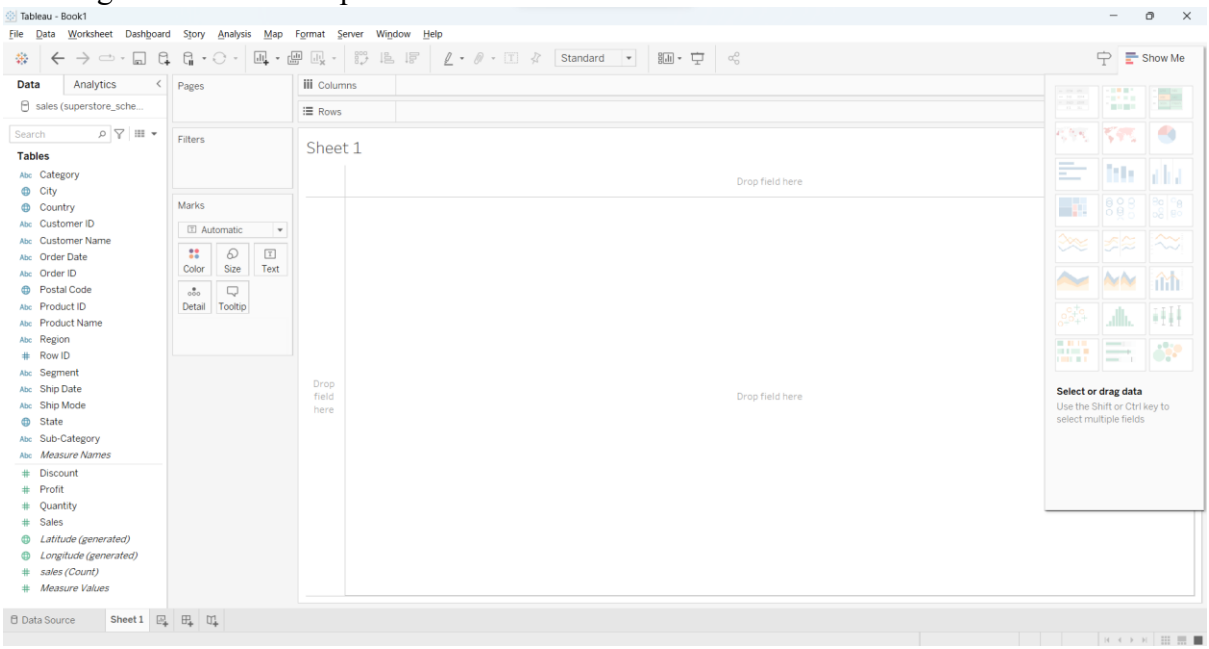


Tableau - Book1
File Data Server Window Help
Connections
Add
localhost
MySQL
Database
Select Database
localhost
Drag tables here
Data Source
Sheet 1



4. Creating the below charts/plots:



4.1. Bar Chart:

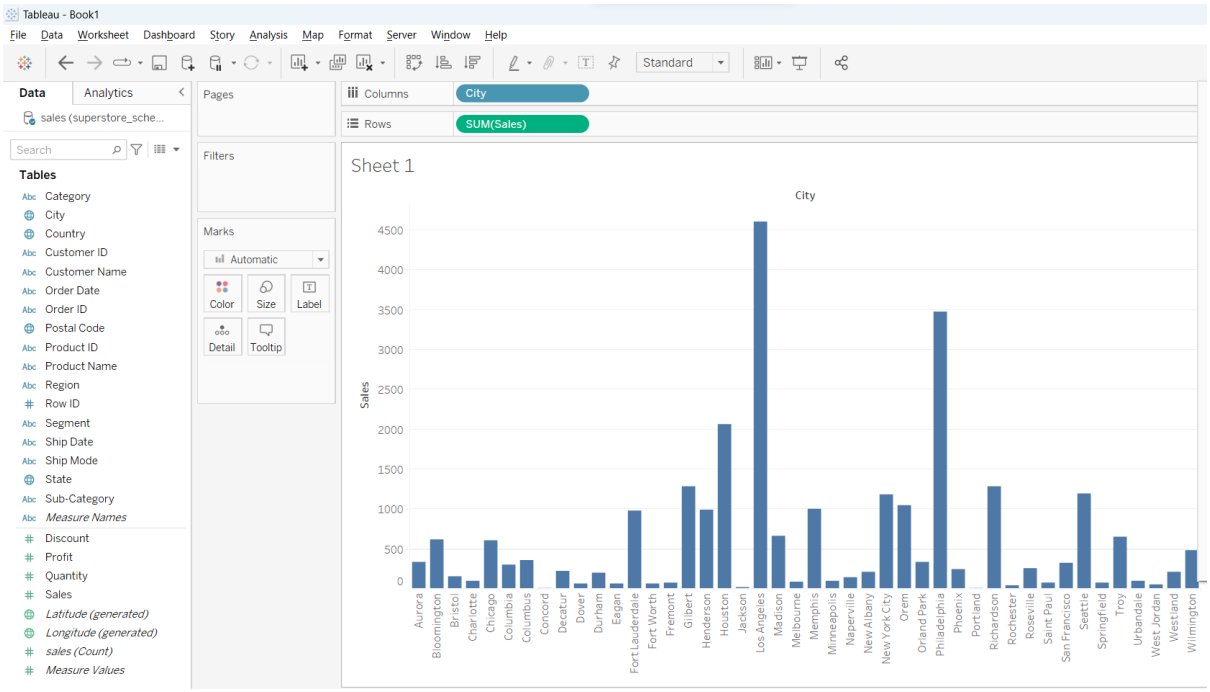


Tableau - Book1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Data Analytics
sales (superstore_sche...
Search
Tables
Abc Category
City
Country
Abc Customer ID
Abc Customer Name
Abc Order Date
Abc Order ID
Postal Code
Abc Product ID
Abc Product Name
Abc Region
Row ID
Abc Segment
Abc Ship Date
Abc Ship Mode
State
Abc Sub-Category
Abc Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
sales (Count)
Measure Values
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Columns
City
Rows
SUM(Sales)
Sheet 1
City
Sales
4500
4000
3500
3000
2500
2000
1500
1000
500
0
Aurora
Bloomington
Bristol
Charlotte
Chicago
Columbia
Columbus
Concord
Decatur
Dover
Durham
Eagan
Fort Lauderdale
Fort Worth
Fremont
Gilbert
Henderson
Houston
Jackson
Los Angeles
Madison
Melbourne
Memphis
Minneapolis
Naperville
New Albany
New York City
Orem
Orland Park
Philadelphia
Phoenix
Portland
Richardson
Rochester
Roseville
Saint Paul
San Francisco
Seattle
Springfield
Troy
Urbandale
West Jordan
Westland
Wilmington

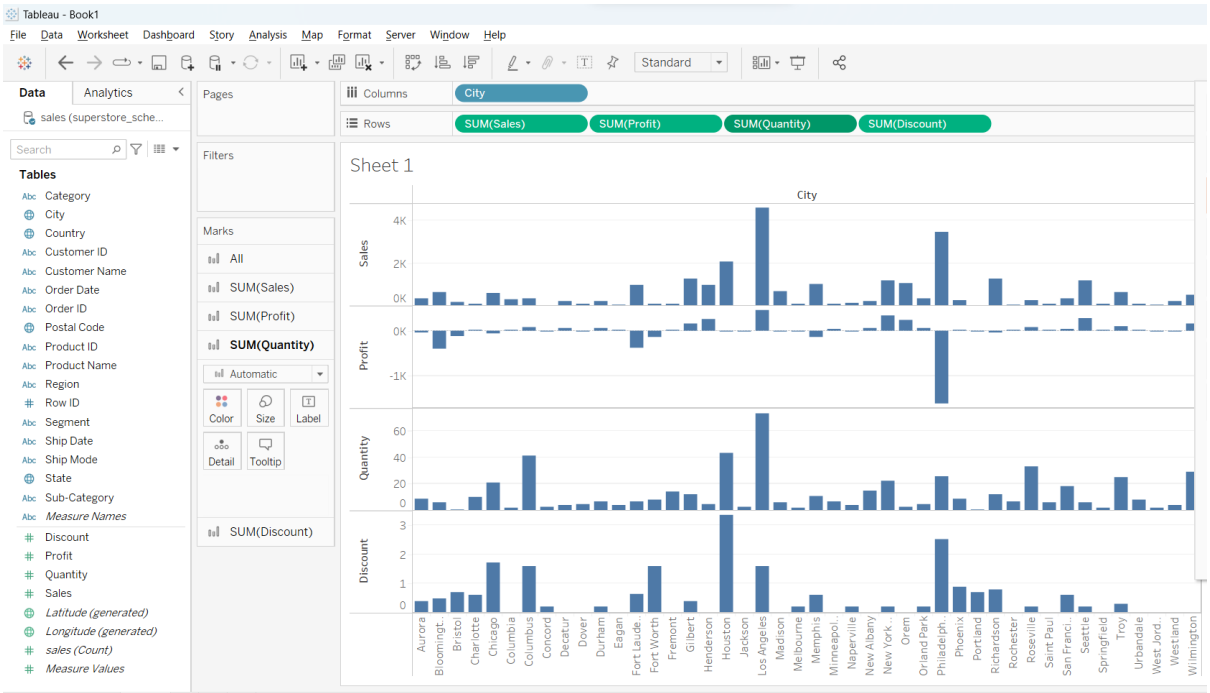


Tableau - Book1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Data Analytics
sales (superstore_sche...
Search
Tables
Abc Category
City
Country
Abc Customer ID
Abc Customer Name
Abc Order Date
Abc Order ID
Postal Code
Abc Product ID
Abc Product Name
Abc Region
Row ID
Abc Segment
Abc Ship Date
Abc Ship Mode
State
Abc Sub-Category
Abc Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
sales (Count)
Measure Values
Pages
Filters
Marks
All
SUM(Sales)
SUM(Profit)
SUM(Quantity)
Automatic
Color
Size
Label
Detail
Tooltip
SUM(Discount)
Columns
City
Rows
SUM(Sales)
SUM(Profit)
SUM(Quantity)
SUM(Discount)
Sheet 1
City
Sales
4K
2K
0K
Profit
0K
-1K
Quantity
60
40
20
0
Discount
3
2
1
0

4.2. Tree Map:

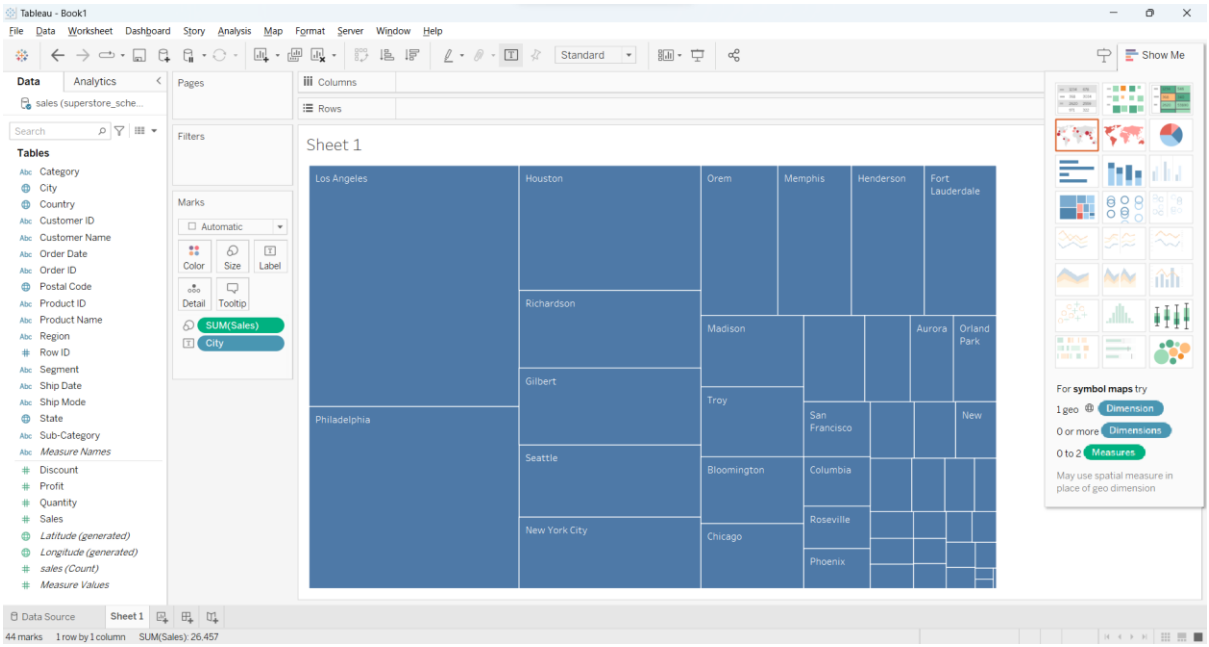


Tableau - Book1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
sales (superstore_sche...
Search
Tables
Category
City
Country
Customer ID
Customer Name
Order Date
Order ID
Postal Code
Product ID
Product Name
Region
Row ID
Segment
Ship Date
Ship Mode
State
Sub-Category
Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
sales (Count)
Measure Values
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
SUM(Sales)
City
Columns
Rows
Sheet 1
Los Angeles
Houston
Orem
Memphis
Henderson
Fort Lauderdale
Richardson
Madison
Aurora
Orland Park
Gilbert
Troy
Philadelphia
San Francisco
New
Seattle
Bloomington
Columbia
New York City
Roseville
Chicago
Phoenix
For symbol maps try
1 geo Dimension
0 or more Dimensions
0 to 2 Measures
May use spatial measure in place of geo dimension
Data Source
Sheet 1
44 marks
1 row by 1 column
SUM(Sales): 26,457

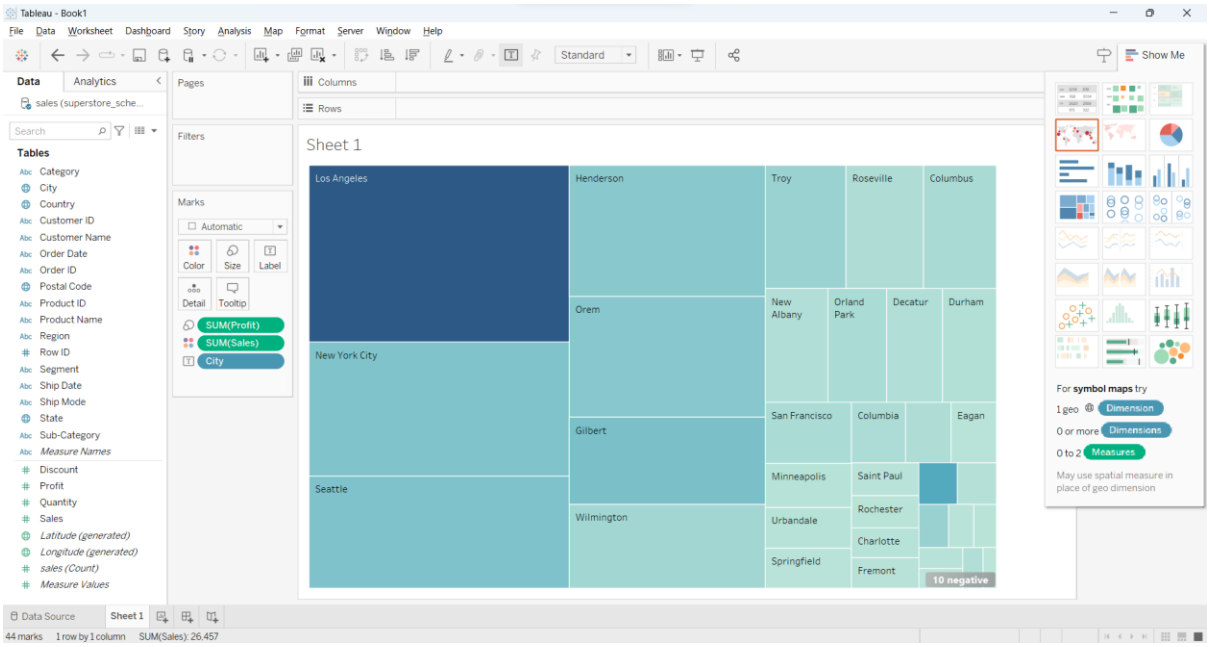


Tableau - Book1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
sales (superstore_sche...
Search
Tables
Category
City
Country
Customer ID
Customer Name
Order Date
Order ID
Postal Code
Product ID
Product Name
Region
Row ID
Segment
Ship Date
Ship Mode
State
Sub-Category
Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
sales (Count)
Measure Values
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
SUM(Profit)
SUM(Sales)
City
Columns
Rows
Sheet 1
Los Angeles
Henderson
Troy
Roseville
Columbus
Orem
New Albany
Orland Park
Decatur
Durham
New York City
San Francisco
Columbia
Eagan
Gilbert
Minneapolis
Saint Paul
Seattle
Rochester
Wilmington
Urbandale
Charlotte
Springfield
Fremont
10 negative
For symbol maps try
1 geo Dimension
0 or more Dimensions
0 to 2 Measures
May use spatial measure in place of geo dimension
Data Source
Sheet 1
44 marks
1 row by 1 column
SUM(Sales): 26,457

4.3. Heat Map:

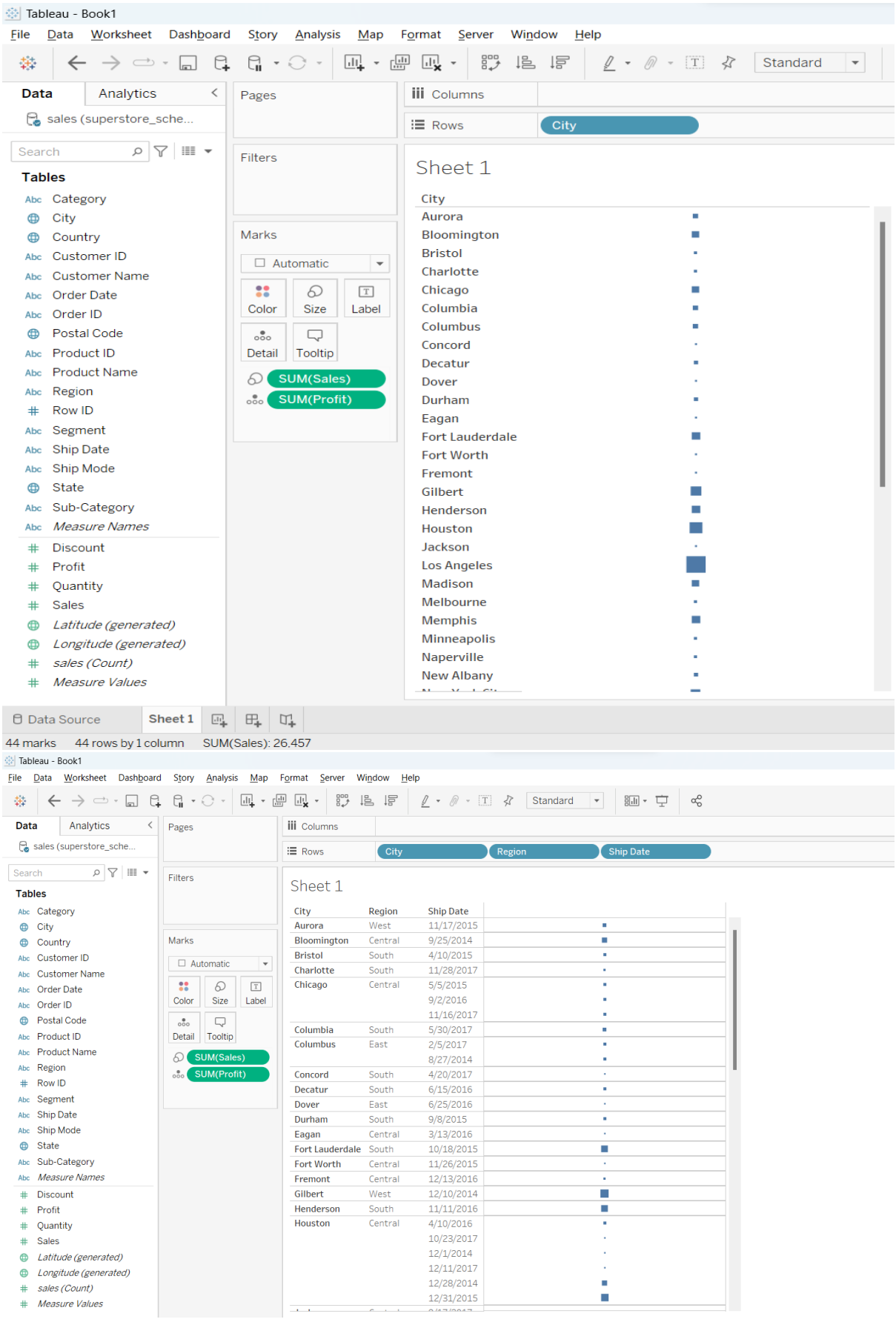


Tableau - Book1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Data Analytics
sales (superstore_sche...
Search
Tables
Abc Category
City
Country
Abc Customer ID
Abc Customer Name
Abc Order Date
Abc Order ID
Postal Code
Abc Product ID
Abc Product Name
Abc Region
Row ID
Abc Segment
Abc Ship Date
Abc Ship Mode
State
Abc Sub-Category
Abc Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
sales (Count)
Measure Values
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
SUM(Sales)
SUM(Profit)
Columns
Rows
City
Sheet 1
City
Aurora
Bloomington
Bristol
Charlotte
Chicago
Columbia
Columbus
Concord
Decatur
Dover
Durham
Eagan
Fort Lauderdale
Fort Worth
Fremont
Gilbert
Henderson
Houston
Jackson
Los Angeles
Madison
Melbourne
Memphis
Minneapolis
Naperville
New Albany
Data Source
Sheet 1
44 marks
44 rows by 1 column
SUM(Sales): 26.457
Tableau - Book1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Data Analytics
sales (superstore_sche...
Search
Tables
Abc Category
City
Country
Abc Customer ID
Abc Customer Name
Abc Order Date
Abc Order ID
Postal Code
Abc Product ID
Abc Product Name
Abc Region
Row ID
Abc Segment
Abc Ship Date
Abc Ship Mode
State
Abc Sub-Category
Abc Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
sales (Count)
Measure Values
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
SUM(Sales)
SUM(Profit)
Columns
Rows
City
Region
Ship Date
Sheet 1
City Region Ship Date
Aurora West 11/17/2015
Bloomington Central 9/25/2014
Bristol South 4/10/2015
Charlotte South 11/28/2017
Chicago Central 5/5/2015
9/2/2016
11/16/2017
Columbia South 5/30/2017
Columbus East 2/5/2017
8/27/2014
Concord South 4/20/2017
Decatur South 6/15/2016
Dover East 6/25/2016
Durham South 9/8/2015
Eagan Central 3/13/2016
Fort Lauderdale South 10/18/2015
Fort Worth Central 11/26/2015
Fremont Central 12/13/2016
Gilbert West 12/10/2014
Henderson South 11/11/2016
Houston Central 4/10/2016
10/23/2017
12/1/2014
12/11/2017
12/28/2014
12/31/2015

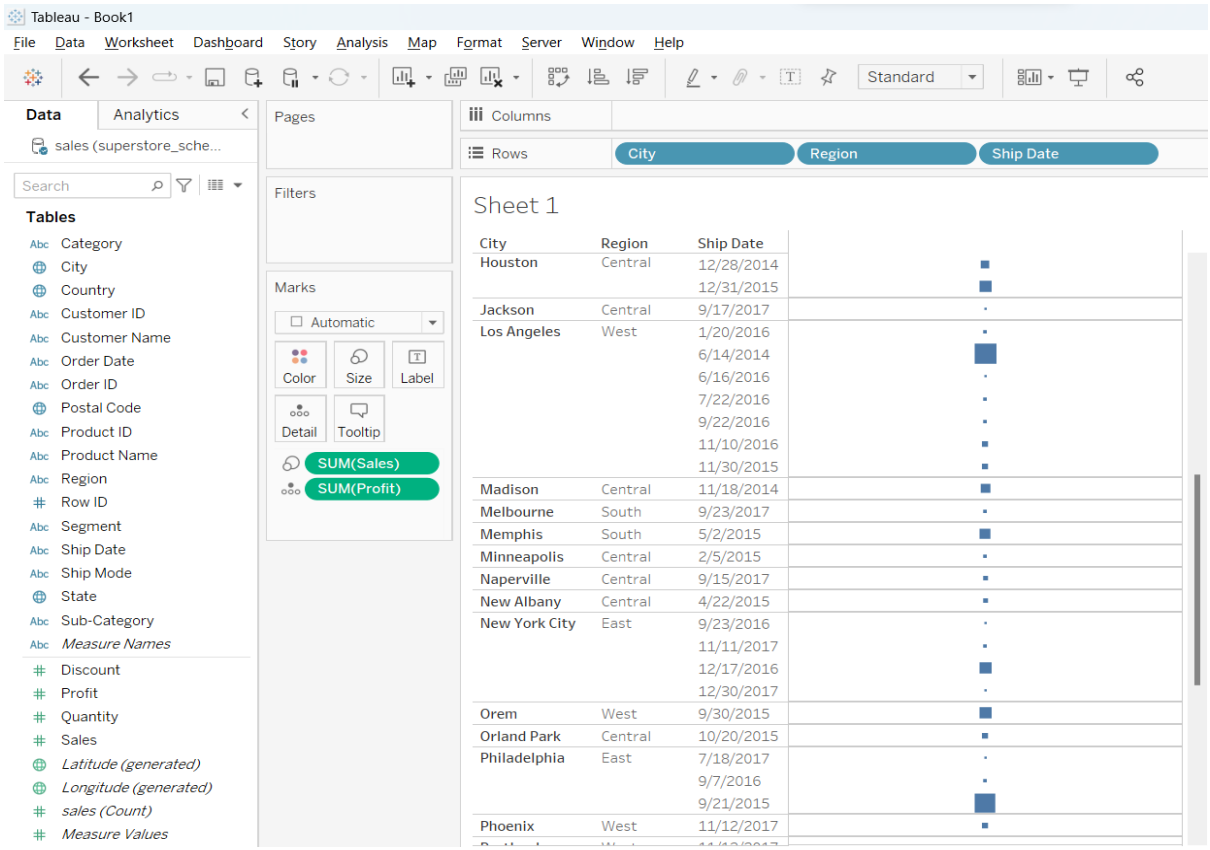


Tableau - Book1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Data Analytics
sales (superstore_sche...
Search
Tables
Abc Category
City
Country
Abc Customer ID
Abc Customer Name
Abc Order Date
Abc Order ID
Postal Code
Abc Product ID
Abc Product Name
Abc Region
Row ID
Abc Segment
Abc Ship Date
Abc Ship Mode
State
Abc Sub-Category
Abc Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
sales (Count)
Measure Values
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
SUM(Sales)
SUM(Profit)
Columns
Rows
City
Region
Ship Date
Sheet 1
City Region Ship Date
Houston Central 12/28/2014
12/31/2015
Jackson Central 9/17/2017
Los Angeles West 1/20/2016
6/14/2014
6/16/2016
7/22/2016
9/22/2016
11/10/2016
11/30/2015
Madison Central 11/18/2014
Melbourne South 9/23/2017
Memphis South 5/2/2015
Minneapolis Central 2/5/2015
Naperville Central 9/15/2017
New Albany Central 4/22/2015
New York City East 9/23/2016
11/11/2017
12/17/2016
12/30/2017
Orem West 9/30/2015
Orland Park Central 10/20/2015
Philadelphia East 7/18/2017
9/7/2016
9/21/2015
Phoenix West 11/12/2017

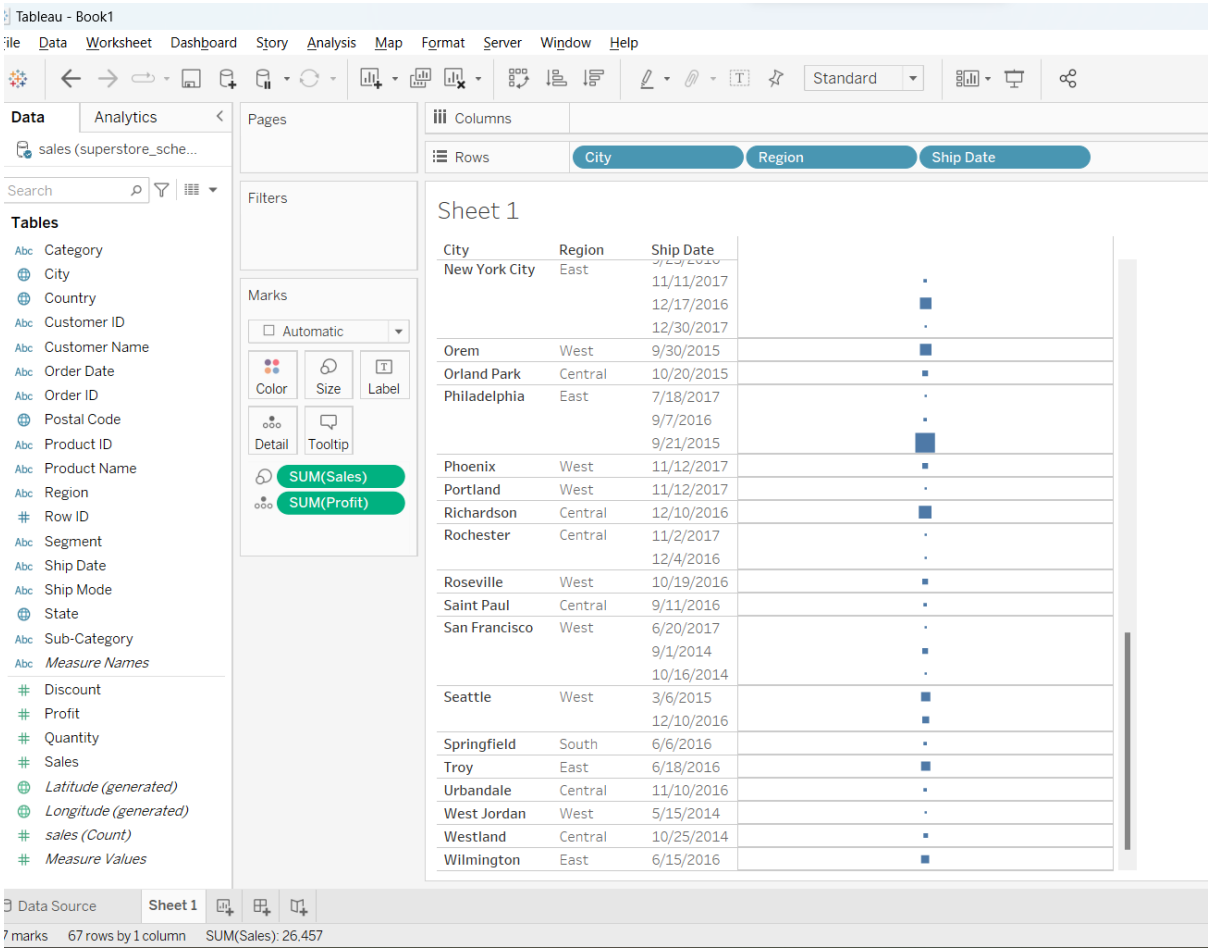


Tableau - Book1
Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Data Analytics
sales (superstore_sche...
Search
Tables
Abc Category
City
Country
Abc Customer ID
Abc Customer Name
Abc Order Date
Abc Order ID
Postal Code
Abc Product ID
Abc Product Name
Abc Region
Row ID
Abc Segment
Abc Ship Date
Abc Ship Mode
State
Abc Sub-Category
Abc Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
sales (Count)
Measure Values
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
SUM(Sales)
SUM(Profit)
Columns
Rows
City
Region
Ship Date
Sheet 1
City Region Ship Date
New York City East 11/11/2017
12/17/2016
12/30/2017
Orem West 9/30/2015
Orland Park Central 10/20/2015
Philadelphia East 7/18/2017
9/7/2016
9/21/2015
Phoenix West 11/12/2017
Portland West 11/12/2017
Richardson Central 12/10/2016
Rochester Central 11/2/2017
12/4/2016
Roseville West 10/19/2016
Saint Paul Central 9/11/2016
San Francisco West 6/20/2017
9/1/2014
10/16/2014
Seattle West 3/6/2015
12/10/2016
Springfield South 6/6/2016
Troy East 6/18/2016
Urbandale Central 11/10/2016
West Jordan West 5/15/2014
Westland Central 10/25/2014
Wilmington East 6/15/2016
Data Source
Sheet 1
67 rows by 1 column
SUM(Sales): 26,457

4.4. Pie Chart:

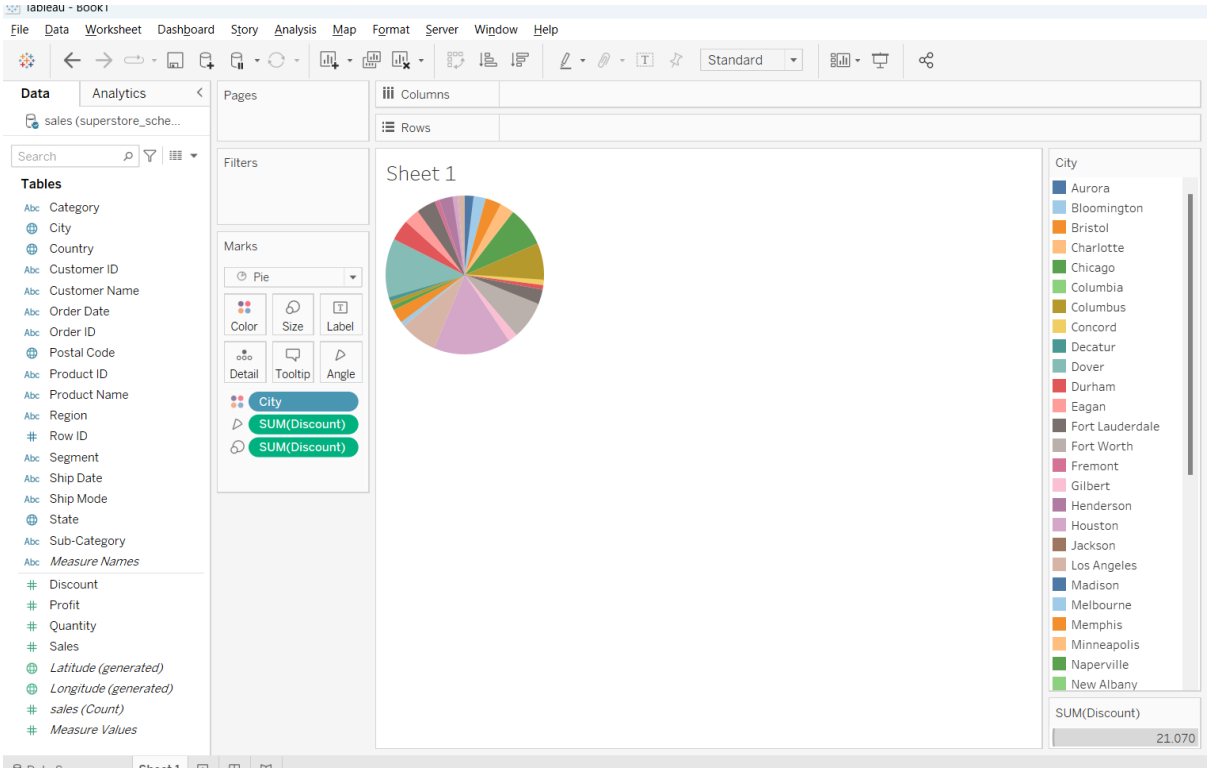


Tableau - Book1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Data Analytics
sales (superstore_sche...
Search
Tables
Abc Category
City
Country
Abc Customer ID
Abc Customer Name
Abc Order Date
Abc Order ID
Postal Code
Abc Product ID
Abc Product Name
Abc Region
Row ID
Abc Segment
Abc Ship Date
Abc Ship Mode
State
Abc Sub-Category
Abc Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
sales (Count)
Measure Values
Pages
Filters
Marks
Pie
Color
Size
Label
Detail
Tooltip
Angle
City
SUM(Discount)
SUM(Discount)
Columns
Rows
Sheet 1
City
Aurora
Bloomington
Bristol
Charlotte
Chicago
Columbia
Columbus
Concord
Decatur
Dover
Durham
Eagan
Fort Lauderdale
Fort Worth
Fremont
Gilbert
Henderson
Houston
Jackson
Los Angeles
Madison
Melbourne
Memphis
Minneapolis
Naperville
New Albany
SUM(Discount)
21.070

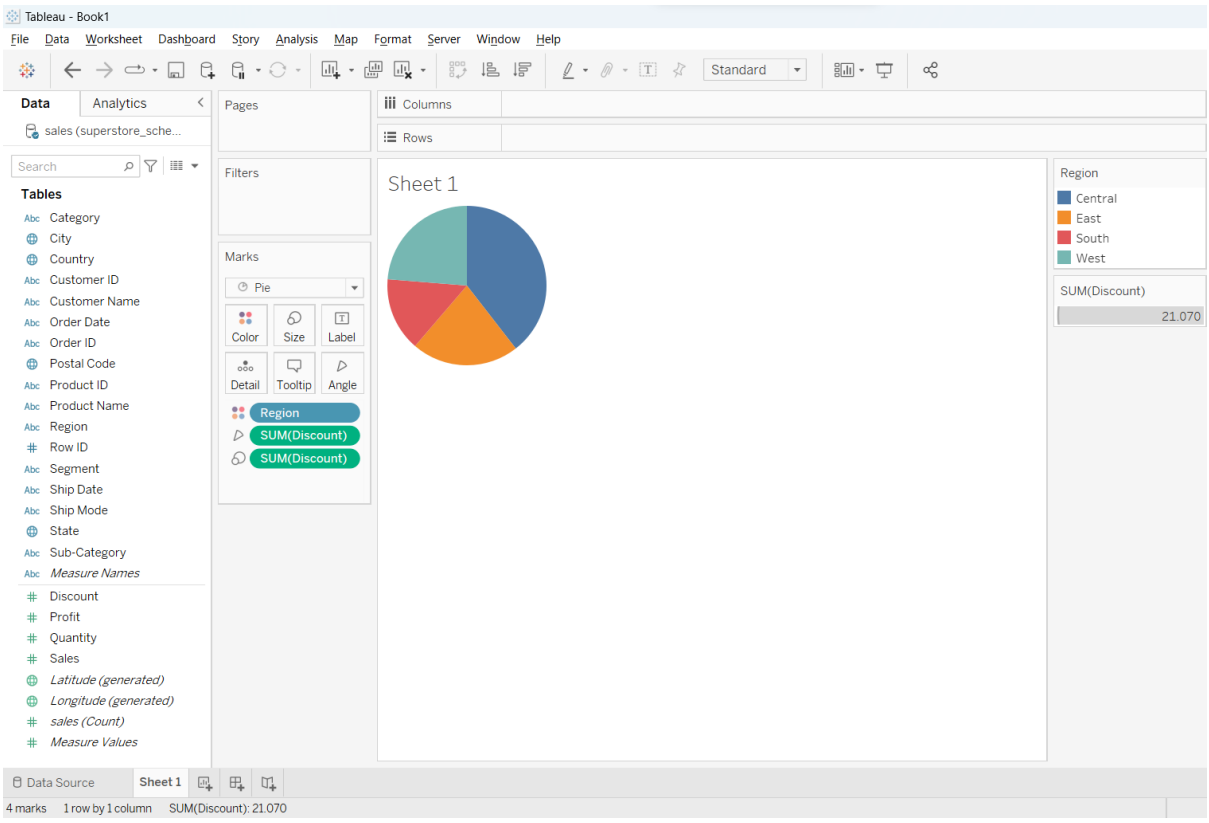
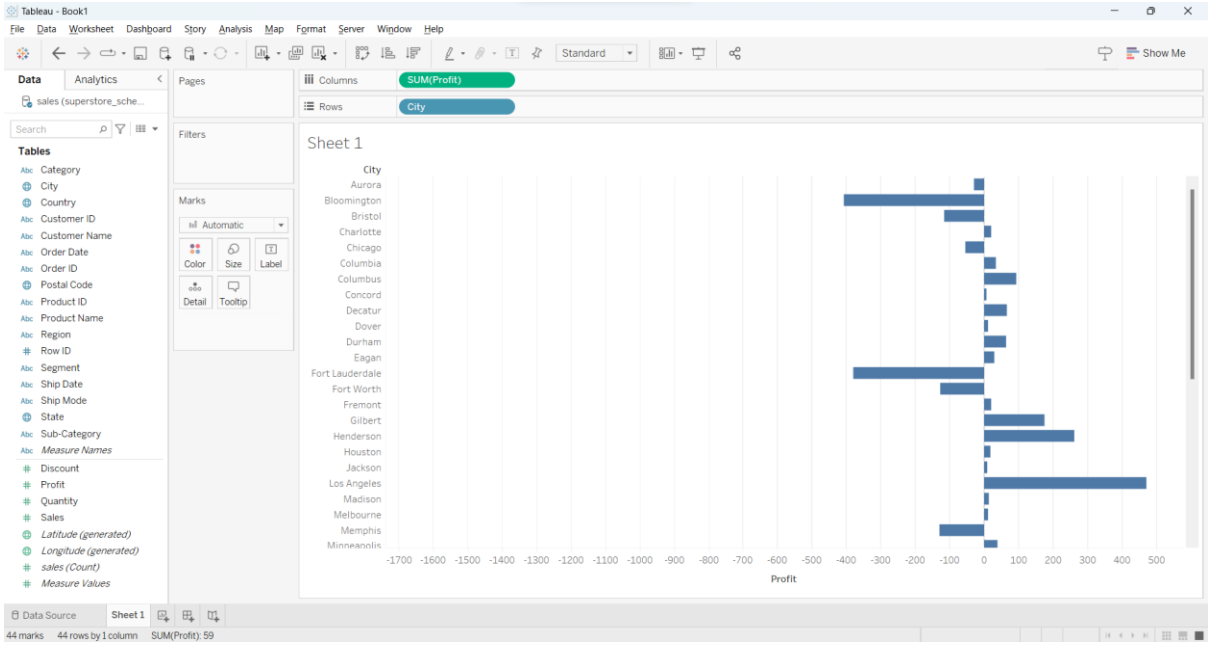
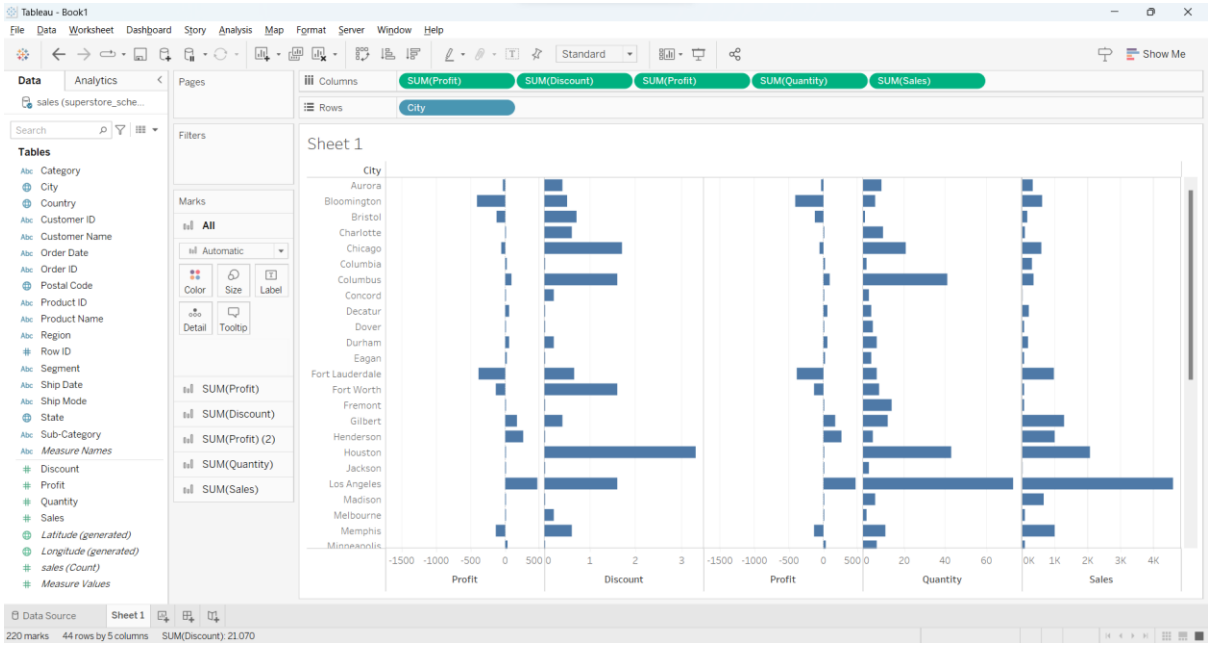


Tableau - Book1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Data Analytics
sales (superstore_sche...
Search
Tables
Abc Category
City
Country
Abc Customer ID
Abc Customer Name
Abc Order Date
Abc Order ID
Postal Code
Abc Product ID
Abc Product Name
Abc Region
Row ID
Abc Segment
Abc Ship Date
Abc Ship Mode
State
Abc Sub-Category
Abc Measure Names
Discount
Profit
Quantity
Sales
Latitude (generated)
Longitude (generated)
sales (Count)
Measure Values
Pages
Filters
Marks
Pie
Color
Size
Label
Detail
Tooltip
Angle
Region
SUM(Discount)
SUM(Discount)
Columns
Rows
Sheet 1
Region
Central
East
South
West
SUM(Discount)
21.070
Data Source
Sheet 1
4 marks
1 row by 1 column
SUM(Discount): 21.070

4.5. Horizontal Bar Chart: